



## Jobs, Tax Revenues, and Economic Activity

The University of North Dakota had approximately \$99.1 million in total sponsored research program expenditures in fiscal year 2014. Input-output analysis indicates that the economic impact of these awards on Grand Forks County, the state of North Dakota, and the North Central Census Region was a staggering \$193 million in economic output, 1,598 jobs, and nearly \$16.8 million in local, state, and federal tax revenue.

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### **Report Commissioned by:**

Barry Milavetz, Ph.D.

*Interim Vice President for Research  
and Economic Development*

### **Economic Analysis Provided by:**

David T. Flynn, Ph.D.

*Professor of Economics  
Chair of the Department of Economics  
Director of the Bureau of Business and  
Economic Research*

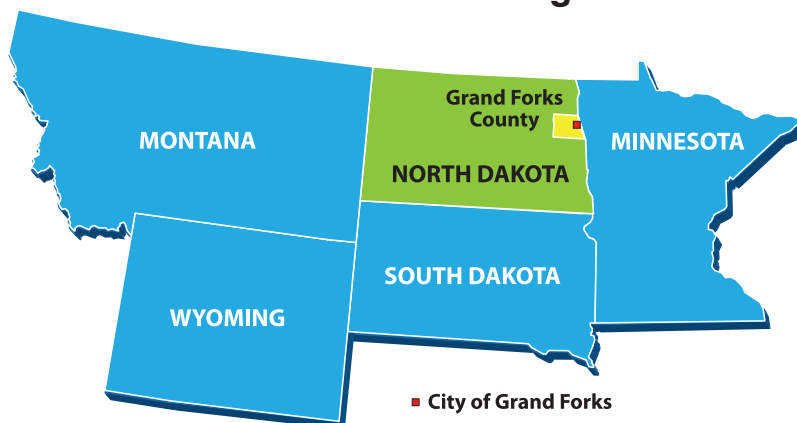
# The Economic Impact of Research at UND: Fiscal Year 2014

This report provides estimates of the economic impact of the approximately \$99.1 million in sponsored program expenditures occurring at the University of North Dakota (UND) during fiscal year 2014 (FY14). Estimates are given for Grand Forks County, the State of North Dakota, and the North Central Census Region (North Dakota, South Dakota, Minnesota, Montana, and Wyoming), measured by the value of economic output, employment, and tax revenues.

With the exception of tax revenues, measures of economic impact are frequently categorized as direct, indirect and induced impacts.

The direct impact of the sponsored program expenditures on a region is the result of spending the available dollars on the purchase of goods and services such as laboratory supplies or the hiring of students or technicians. The purchase of goods and services from the sponsored program creates economic activity in supporting industries that is referred to as the indirect impact. The induced impact results from purchases made by those individuals whose income has been generated by employment related to either the direct or the indirect impact of the sponsored program.

## The North Central Region



# Output and Employment

Figure 1 shows the relative effects of the direct, indirect and induced impacts of UND-sponsored programs on the economic output of Grand Forks County, North Dakota, and the North Central Region, respectively. For each dollar spent for sponsored programs at UND, there was \$1.58 in economic activity in Grand Forks County, \$1.60 in North Dakota, and \$1.95 in the North Central Region. Not surprisingly, the economic impact was greater as the size of the study area increased. These results clearly indicate the importance of the sponsored programs conducted at UND on the local, state, and regional economies.

**Figure 1:  
Output per UND Research Dollar**

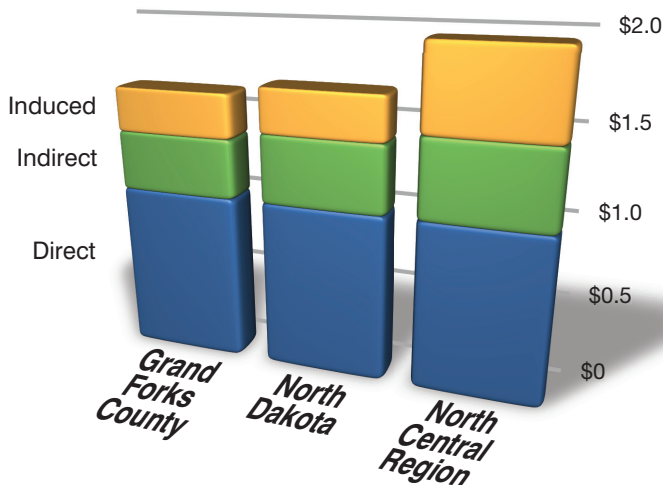
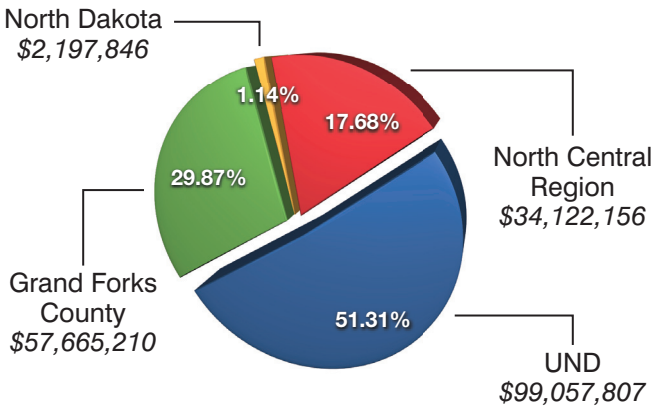


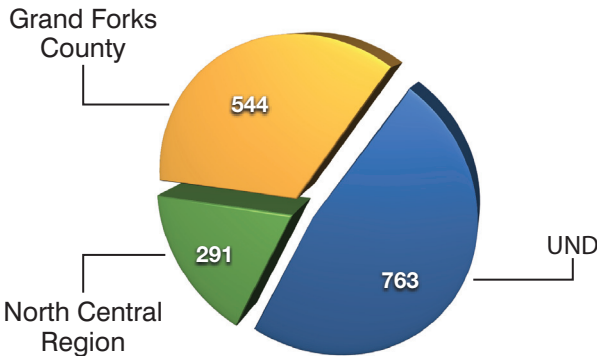
Figure 2 shows \$193 million of cumulative economic output impact of FY14 UND-sponsored programs across the region, beginning with the direct impact on UND. The impacts added by indirect and induced impacts on Grand Forks County, the remainder of North Dakota, and the North Central Region are shown in the accompanying pie chart. The cumulative impact of UND-sponsored programs within the State of North Dakota is \$158.9 million. See Table 1 for additional details.

**Figure 2:  
Cumulative Output**



The estimated FY14 employment impact of UND-sponsored programs was approximately 1,598 jobs, 763 of which were at UND, 544 additional jobs in Grand Forks County, and 291 additional jobs outside of North Dakota within the North Central Region. These cumulative employment impacts are shown in Figure 3. The cumulative number of jobs within the state of North Dakota created by UND-sponsored programs is 1,307. See Table 1 for additional details.

**Figure 3:  
Cumulative Employment**

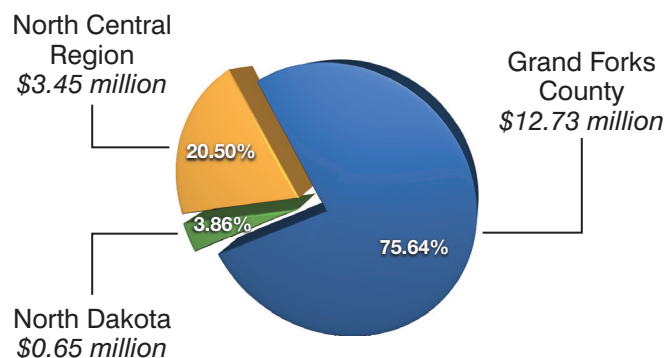


# Local, State and Federal Taxes

Table 1 on the next page shows that the indirect and induced impacts of FY14 UND-sponsored program expenditures generated \$4 million in state and local taxes and \$12.8 million in federal taxes. Of these, \$3 million in state and local tax revenues and \$9.7 million in federal tax revenues were from Grand Forks County. An additional \$157,853 in state and local taxes and \$495,595 in federal taxes were generated outside of Grand Forks County within North Dakota. Interestingly, \$836,442 in state and local taxes and \$2.6 million in federal taxes were estimated to have been generated outside of North Dakota within the North Central Region. The total state and federal taxes generated by UND's sponsored program expenditures was \$16.8 million. Figure 4 shows cumulative total tax

revenues for Grand Forks County, North Dakota, and the North Central Region.

**Figure 4:  
Cumulative Tax Revenues**



## Summary

The \$99.1 million in sponsored program expenditures by UND in FY14 is estimated to have had an additional impact of \$57.7 million in Grand Forks County, \$2.2 million in other counties within North Dakota and \$34.1 million in the North Central Region, for a total economic impact of \$193,043,019. This sponsored research is also estimated to have led to the creation of 763 jobs within UND, 544 additional jobs in Grand Forks County, and 291 jobs outside of North Dakota but within the North Central Region, for a total of 1,598 jobs. The state, local and federal tax impact of UND-sponsored research program spending was estimated at \$12.7 million from Grand Forks County, plus another \$653,448 from North Dakota and another \$3.4 million from the North Central Region, for a total of \$16.8 million in state, local, and federal tax revenue attributable to FY14 UND-sponsored programs.





## Table 1: Economic Impact Summary for Fiscal Year 2014

Impact Area	Output	Number of Jobs
UND	\$99,057,807	763
Grand Forks County	\$57,665,210	544
North Dakota	\$2,197,846	–
North Central Region	\$34,122,156	291
<b>Total</b>	<b>\$193,043,019</b>	<b>1,598</b>
	<b>State &amp; Local Taxes</b>	<b>Federal Taxes</b>
Grand Forks County	\$3,017,717	\$9,714,248
North Dakota	\$157,853	\$495,595
North Central Region	\$836,442	\$2,608,669
<b>Total</b>	<b>\$4,012,012</b>	<b>\$12,818,512</b>

## Administration

Barry Milavetz, Ph.D., has been serving as Interim Vice President for Research and Economic Development at the University of North Dakota since July of 2014. The mission of the Office of the Vice President for Research & Economic Development is to serve the broad research community of the University of North Dakota, a community that is instrumental in meeting the strategic aims of the University. Research administration is centered in five offices: namely the Office of the Vice President for Research & Economic Development, Grants & Contracts Administration, Research Development & Compliance, IP Commercialization & Economic Development, and ND EPSCoR. In fiscal year 2014, a total of \$95.4 million in awards was received for sponsored research activities, and research expenditures totaled \$99.1 million.



Division of Research & Economic Development  
264 Centennial Drive Stop 8367  
Grand Forks, ND 58202-8367  
Telephone: 701-777-6736  
Fax: 701-777-2193  
research.UND.edu

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